Sl No.	Specification	Unit	No	L	B	D	Quantity	Unit	Rate in Rs	Amount in Rs

18/1/2019.

BRUHAT BENGALURU MAHANAGARA PALIKE

Name of Work : Development of Green space and parks to Vin Field Layout Main Road Park Ward - 5

3rd and part bill

	ELECTRICAL WORKS:									
122	Fabricating, supplying and erection of …Mtrs long hot dip Galvanized Conical pole with BSEN 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet and MCBs as per IS specifications suitable to withstand the wind speed of 47 m/sec for …….Mtrs pole in single section and single joint welded as per IS 9595/IS 10178AWS having dimensions bottom …..mm, top….mm with 3mm thick, suitable base plate and 4Nos of ..... long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65micron as per ASTM-A123 and 153 etc.,(excluding foundation) as per drawing appended.4 meters - Top 75mm and bottom 115 mm dia,As directed by the engineer incharge of the work.									
	for park				60.00		**60.00**	**nos**		
							60.00	**nos**	**7,594.18**	**4,55,650.92**
123	Fabricating, supplying and erection of …Mtrs long hot dip Galvanized Conical pole with BSEN 10025 grade S 355 JO steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet and MCBs as per IS specifications suitable to withstand the wind speed of 47 m/sec for …….Mtrs pole in single section and single joint welded as per IS 9595/IS 10178AWS having dimensions bottom …..mm, top….mm with 3mm thick, suitable base plate and 4Nos of ..... long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65micron as per ASTM-A123 and 153 etc.,(excluding foundation) as per drawing appended5)7 meters - Top 75mm and bottom 145 mm dia,As directed by the engineer incharge of the work.									
	for park				5.00		**5.00**	**nos**		
							5.00	**nos**	**14,734.98**	**73,674.90**
124	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A.4 core 16 sqmm,As directed by the engineer incharge of the work.									
	for park				923.10		**923.10**	**Mts**		
							923.10	**Mts**	**147.35**	**1,36,018.60**
125	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A5)3.5 core 25 sqmm,As directed by the engineer incharge of the work.									
	for park				50.00		**50.00**	**Mts**		
							50.00	**Mts**	**173.69**	**8,684.61**

PDMC

CONTRACTOR

AE

Asst. Executive Engineer (E
Yelahanka Sub-Division

Scanned by CamScanner

Sl No.	Specification	Unit	No	L	B	D	Quantity	Unit	Rate in Rs	Amount in Rs
126	Labour charges for lying of 1.1 KV class UG cable when supplied agency in existing trench Gl pipe / stoneware pipe / on wall /on pole as required. I. In existing trench/duct.b)25sqmm to 75 sqmm,As directed by the engineer incharge of the work.									
	0 to P1(3X18)									
	P1toP2				54.00		54.00	Mts		
	P2toP3				10.00		10.00	Mts		
	P3toP4				9.00		9.00	Mts		
	P4toP5				9.00		9.00	Mts		
	P4toP6				12.00		12.00	Mts		
	P6toP7				10.00		10.00	Mts		
	P7toP8				10.00		10.00	Mts		
	P8toP9				10.00		10.00	Mts		
	P9toP10				8.00		8.00	Mts		
	P10 to BI				10.00		10.00	Mts		
	P10toP11				8.00		8.00	Mts		
	P11toP12				7.60		7.60	Mts		
	P12toP13				8.00		8.00	Mts		
	P13toP14				8.00		8.00	Mts		
	P14toP15				16.00		16.00	Mts		
	P15toP16				9.00		9.00	Mts		
	P16toP17				9.00		9.00	Mts		
	P13toP18				18.00		18.00	Mts		
	P18toP19				21.00		21.00	Mts		
	P19toP20				9.00		9.00	Mts		
	P20toP21				9.00		9.00	Mts		
	P21toP22				9.00		9.00	Mts		
	P21 to Gazzebo				10.00		10.00	Mts		
	P22toP23				8.00		8.00	Mts		
	P22 to B2				11.00		11.00	Mts		
	P23toP24				8.00		8.00	Mts		
	P24toP25				8.00		8.00	Mts		
	P25toP26				7.00		7.00	Mts		
	P26toP27				7.00		7.00	Mts		
	P27toP28				7.00		7.00	Mts		
	P28toP29				9.50		9.50	Mts		
	P29toP30				9.50		9.50	Mts		
	P30toP31				9.00		9.00	Mts		
	P31toP32				18.00		18.00	Mts		
	P6toP33				18.00		18.00	Mts		
					14.00		14.00	Mts		

PDMC

CONTRACTOR

AE

AEE
Asst. Executive Engineer (E
Yelahanka Sub-Division

Scanned by CamScanner

Sl No.	Specification	Unit	No	L	B	D	Quantity	Unit	Rate in Rs	Amount in Rs
	P5toP34				15.00		15.00	Mts		
	P34toP35				16.00		16.00	Mts		
	P35toP36				11.00		11.00	Mts		
	P34toP37				14.00		14.00	Mts		
	P34toP38				12.00		12.00	Mts		
	P38toP39				17.00		17.00	Mts		
	P39toP40				18.00		18.00	Mts		
	P40toP41				9.00		9.00	Mts		
	P41toP42				9.00		9.00	Mts		
	P42toP43				9.00		9.00	Mts		
	P43toP44				20.00		20.00	Mts		
	P35toP45				19.00		19.00	Mts		
	P1 to P46				12.50		12.50	Mts		
	P1 to P47				10.00		10.00	Mts		
	P45 to Gazzebo				8.00		8.00	Mts		
	P47toP48				9.00		9.00	Mts		
	P48toP49				12.00		12.00	Mts		
	P49toB 4				7.00		7.00	Mts		
	P49toP50				10.00		10.00	Mts		
	P50toP51				9.00		9.00	Mts		
	P51toP52				10.00		10.00	Mts		
	P52toP53				15.00		15.00	Mts		
	P53toP54				13.00		13.00	Mts		
	P54toP55				14.00		14.00	Mts		
	P55toP56				10.00		10.00	Mts		
	P56toP57				10.00		10.00	Mts		
	P57toP58				10.00		10.00	Mts		
	P58toP59				18.00		18.00	Mts		
	P59toP60				16.00		16.00	Mts		
	P58 to B 3				8.00		8.00	Mts		
							135.00	Mts		
							923.10	Mts	11.02	10,172.33
127	Providing Rcc Pole pedstal of Size 0.5x0.5x1.6 Mtrs Including digging of pit, tor steel, anchoring bolts nuts ,templates ,Centring,1;4;8base concrete,1;2;4pedestal concrete and etc As directed by the engineer incharge of the work.									
					45.00		45.00	nos		
	Pole to box									
							45.00	nos	17.00	765.09

PDMC

CONTRACTOR

AE

AEE
Asst. Executive Engineer
Yelahanka Sub-Divisio
Mahanagar

Scanned by CamScanner

Sl No.	Specification	Unit	No	L	B	D	Quantity	Unit	Rate in Rs	Amount in Rs
128	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete,As directed by the engineer incharge of the work.									
	0 to P1(3X18)				18.00		18.00	Mts		
	P1toP2				10.00		8.20	Mts		
	P2toP3				9.00		7.20	Mts		
	P3toP4				9.00		7.20	Mts		
	P4toP5				12.00		10.20	Mts		
	P4toP6				10.00		8.20	Mts		
	P6toP7				10.00		8.20	Mts		
	P7toP8				10.00		8.20	Mts		
	P8toP9				8.00		6.20	Mts		
	P9toP10				10.00		8.20	Mts		
	P10 to BI				8.00		6.20	Mts		
	P10toP11				7.60		5.80	Mts		
	P11toP12				8.00		6.20	Mts		
	P12toP13				8.00		6.20	Mts		
	P13toP14				16.00		14.20	Mts		
	P14toP15				9.00		7.20	Mts		
	P15toP16				9.00		7.20	Mts		
	P16toP17				18.00		16.20	Mts		
	P13toP18				21.00		19.20	Mts		
	P18toP19				9.00		7.20	Mts		
	P19toP20				9.00		7.20	Mts		
	P20toP21				9.00		7.20	Mts		
	P21toP22				10.00		8.20	Mts		
	P21 to Gazzebo				8.00		6.20	Mts		
	P22toP23				11.00		9.20	Mts		
	P22 to B2				8.00		6.20	Mts		
	P23toP24				8.00		6.20	Mts		
	P24toP25				7.00		5.20	Mts		
	P25toP26				7.00		5.20	Mts		
	P26toP27				7.00		5.20	Mts		
	P27toP28				9.50		7.70	Mts		
	P28toP29				9.50		7.70	Mts		
	P29toP30				9.00		7.20	Mts		
	P30toP31				18.00		16.20	Mts		
	P31toP32				18.00		16.20	Mts		
	P6toP33				14.00		12.20	Mts		
	P5toP34				15.00		13.20	Mts		
	P34toP35				16.00		14.20	Mts		
	P35toP36				11.00		9.20	Mts		
	P34toP37				14.00		12.20	Mts		
	P34toP38				12.00		10.20	Mts		
	P38toP39				17.00		15.20	Mts		
	P39toP40				18.00		16.20	Mts		
	P40toP41				9.00		7.20	Mts		
	P41toP42				9.00		7.20	Mts		
	P42toP43				9.00		7.20	Mts		
	P43toP44				20.00		18.20	Mts		
	P35toP45				19.00		17.20	Mts		

PDMC

CONTRACTOR

AE

AEE

Asst. Executive Engineer
Yelahanka Sub-Divisi
Bangalore Mahanagar

Scanned by CamScanner

Sl No.	Specification	Unit	No	L	B	D	Quantity	Unit	Rate in Rs	Amount in Rs
	P1 to P46									
	P1 to P47				12.50		10.70	Mts		
	P45 to Gazzebo				10.00		8.20	Mts		
	P47toP48				8.00		6.20	Mts		
	P48toP49				9.00		7.20	Mts		
	P49toB 4				12.00		10.20	Mts		
	P49toP50				7.00		5.20	Mts		
	P50toP51				10.00		8.20	Mts		
	P51toP52				9.00		7.20	Mts		
	P52toP53				10.00		8.20	Mts		
	P53toP54				15.00		13.20	Mts		
	P54toP55				13.00		11.20	Mts		
	P55toP56				14.00		12.20	Mts		
	P56toP57				10.00		8.20	Mts		
	P57toP58				10.00		8.20	Mts		
	P58toP59				10.00		8.20	Mts		
	P59toP60				18.00		16.20	Mts		
	P58 to B 3				16.00		14.20	Mts		
	pole to MCB				8.00		6.20	Mts		
					45.00		43.20	Mts		
							678.30	Mts	81.86	55,526.32
129	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) THREE POLE 100Amps25kA.,As directed by the engineer incharge of the work.									
	MCCB				1.00		1.00	Mts		
								Mts		
							1.00	Mts	4,244.18	4,244.18
130	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers.63Amps,As directed by the engineer incharge of the work.									
					6.00		6.00	Mts		
								Mts		
							6.00	Mts	245.58	1,473.50
131	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.f)40-63Amps TPN,As directed by the engineer incharge of the work.									
					3.00		3.00	Mts		
								Mts		
							3.00	Mts	2,031.83	6,095.50
132	Fabricating supplying and mounting MS box made out … SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete.16SWG.As directed by the engineer incharge of the work.									
		1	350	200.00			70000.00	sqcm		
								sqcm		
							70000.00	sqcm	0.35	24,243.45
133	Supply and fixing of 4-pole power contactor with NO/NC contacts on existing wood / panel board using necessary bolts, nuts, washers and wiring etc., complete. d) 100-125 Amps,As directed by the engineer incharge of the work.									
					3.00		3.00	Mts		
								Mts		
							3.00	Mts	10,405.79	31,217.38
134	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multis and Copper conductor single core cable in open or consealed system of wiring.I Group A Materials.g)16 sqmm1.5 sqmm,As directed by the engineer incharge of the work.									
	for 60 poles		60	8.50			510.00	Mts		
								Mts		
							510.00	Mts	16.69	8,510.40
135	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multis and Copper conductor single core cable in open or consealed system of wiring.I Group A Materialsg)16 sqmm,As directed by the engineer incharge of the work.									
	for 5 poles		5	6.00			30.00	Mts		
								Mts		
							30.00	Mts	138.53	4,156.02

PDMC

CONTRACTOR

AE

AEE
Asst. Executive Engineer
Yelahanka Sub-Divisio

Scanned by CamScanner

Sl No.	Specification	Unit	No	L	B	D	Quantity	Unit	Rate in Rs	Amount in Rs
136	Supplying and fixing phylum brand hand plastic sheet 3mm thick with necessary niches for fixing switches, regulators etc., and fixing on exisiting wood or metal box using N.F.screws									
	for mcb									
		1	200	100.00			20000.00	sqcm		
								sqcm		
							20000.00	sqcm	0.23	4,617.80
137	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. And M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. a)40X40X6mm,As directed by the engineer incharge of the work.									
	for 5 poles									
		5	6				30.00	Mts		
								Mts		
							30.00	Mts	276.02	8,280.56
138	Supplying and fixing electro mechanical timer (without contactor) using necessary bolts, nuts and waqshers etc.. Group A,As directed by the engineer incharge of the work.									
	in mcb									
							2.00	nos		
								nos		
							2.00	nos	4,407.90	8,815.80
139	Supply of LED Post Top Lantern with system ... wattage, housing & frame shall be of powder coated, die cast aluminum, diffuser with high density polyethylene IP65 EPDM Gasket. Life 50000 Hrs. @ L70 shall be conforming to IS 10322/Part 5/ Section 5 @ 230V. 5 years Warranty against any manufacturing defect working under standard electrical condition 2)LED Post Top Lantern with 24 watts,As directed by the engineer incharge of the work.									
	for 60 poles		1	60.00			60.00	Mts		
								Mts		
							60.00	Mts	16,718.54	10,03,112.10
140	Supply of LED Square Recessed Down lighter with 18W System Wattage. Housing shall be with powder coated pressure die cast aluminum alloy with corrosion resistant polyester powder coat & with extended heat sink. Diffuser/cover made of Lexan plastic material. Rated life shall be L70 @ 50000 Hrs. which shall has inbuilt electrical protection like over/under voltage, short circuit, overload, open circuit & miswiring. Driver is on constant current driver output driver @ 0.06A with PF > 0.9 with line voltage @ 220-240V @ 50/60Hz, driver efficiency > 85% & THD<15%. LED Efficiency > 130 lm/W at 1W & Fixture Efficiency >75lm/w with CRI > 75 with injection moulded Polycarbonate lens. 5 years Warranty against any manufacturing defect working under standard electrical condition.As directed by the engineer incharge of the work.									
	for long poles		1	3.00			3.00	Mts		
								Mts		
							3.00	Mts	5,189.78	15,569.33
141	Fixing charges of post top/ Gate/ Garden fitting /LED on the existing CI / GI or any other pipe using required size of reducer, wiring using suitable wires.As directed by the engineer incharge of the work.									
	for long poles		1	60.00			60.00	Mts		
								Mts		
							60.00	Mts	152.18	9,130.65
142	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipments on the meter board using 40mm dia 2.90 thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proprotion of salt and charcoal 150mm alround the pipe to complete depth. the connection form the pipe to the conduit etc, is to be established through GI wire of size as oer ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and checknuts etc, the pipe shall have 16 through holes of 122mm dia.As directed by the engineer incharge of the work.									
			1	1.00			1.00	Mts		
								Mts		
							1.00	Mts	2,861.99	2,861.99
143	Supplying and running of GI/Copper strips for grounding connections, using necdessary fixing materials as required. GI strip 1). 25x3mm,As directed by the engineer incharge of the work.									
	near MCB		1	10.00			10.00	Mts		
								Mts		
							10.00	Mts	80.81	808.12

18/1/19

PDMC CONTRACTOR AE AEE

Asst. Executive Engineer
Yelahanka Sub-Division

Scanned by CamScanner

Sl No.	Specification	Unit	No	L	B	D	Quantity	Unit	Rate in Rs	Amount in Rs
144	Supplying of LED Floodlight with .....W System Power consumption pressure die cast aluminum housing with powder coating with IP 65 protection. 1, 200-275V voltage with electronic Driver, PF>0.9, should meet ANSI 2G Vibration test, Compliance to UL/CE with Class I. System rating shall be 50K hrs. @ Lumen maintenance of 70%, system efficacy > 80lm/w. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer. 2) LED Floodlight 90W,As directed by the engineer incharge of the work.									
	in long poles		1	10.00			10.00	nos		
								nos		
							10.00	nos	15,370.98	1,53,709.77
145	Supplying and fixing of class A (medium duty) Gl pipe of wall thick ness not less than 3.25 mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class. 2) 50 mmAs directed by the engineer incharge of the work.									
			2	3.00			6.00	nos		
								nos		
							6.00	nos	410.35	2,462.13
146	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc. 3) 25 SqmmAs directed by the engineer incharge of the work.As directed by the engineer incharge of the work.									
			2	1.00			2.00	nos		
								nos		
							2.00	nos	379.92	759.84
147	Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 220v A.C.50 Hz 12/24v D.C.As directed by the engineer incharge of the work.									
			3	1.00			3.00	nos		
								nos		
							3.00	nos	463.88	1,391.64
150	Providing Rcc Pole pedstal of Size 0.5x0.5x1.6 Mtrs Including digging of pit, tor steel, anchoring bolts nuts ,templates ,Centring,1;4;8base concrete,1;2;4pedestal concrete and etc As directed by the engineer incharge of the work.									
			1	60.00			60.00	nos		
								nos		
							60.00	nos	1,133.46	68,007.60
	Total									20,99,960.49

PDMC

CONTRACTOR

AE

Asst. Executive Engineer (Elec.)
AEE
Yelahanka Sub-Division
Bangalore Mahanagara Palike

Scanned by CamScanner